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Analysis of
Animal Feed Products
Sold in Connecticut
2002

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From January 1, 2002 through December 31, 2002 the Department of Analytical Chemistry at The Connecticut Agricultural Experiment Station analyzed 107 animal feed products sold in Connecticut. The samples represented both products for domestic animals and for commercial agricultural operations. Eighteen manufacturers were represented. The products were collected by John Schneider and Alton Van Dyke of the Connecticut Department of Agriculture and were analyzed by Craig Musante and Mamie Pyles under the supervision of Dr. David Stilwell.

A sample is reported to be unsatisfactory if the found value of a substance differs from the label guarantee using the percent analytical variation guidelines recommended by the Association of the American Feed Control Officials. Tables 1 and 2 show analyses for macronutrients. Eight (7.5%) of the samples were found to be unsatisfactory in one or more macronutrients. Table 1 shows that two samples were deficient in protein and five were deficient in fat. A deficiency in a label-guaranteed substance value (G) is indicated by a minus (-) sign next to the laboratory-found substance value (F) and an excess of a substance by a plus (+) sign. Table 2 shows guarantees for moisture and fiber. One sample contained an excess of fiber. Micronutrients are reported in Table 3 with deficiencies (-) and excesses (+) indicated next to the laboratory-found values. Data in Table 2 are in percent unless otherwise indicated. Of the eighty samples analyzed for micronutrients, twelve unacceptable levels of micronutrients were detected.

Table 1. Analyses of protein, fat, and fiber in animal feed products.

	Protein %		Fat%		Fiber%	
	G	F	G	F	G	F
AGWAY, INC.						
Agway Hog Feed	14	13.7	3	3.2	3.7	3.2
Agway Sow & Pig T40 Medicated Feed	16	15.8	3	3.1	5.5	3.1
Agway Hi-Energy Lamb Medicated Feed	16	16.9	3.5	3.8	9	6.7
Agway Sheep & Goat Feed	16	17.6	3	4.5	8	8.1
Agway Llama Pellets	13	13.9	2.5	2.9	17	15.2
Agway Egg Layer	13	16.6	3	3.1	4	4.4
Agway Chick Grower	14.5	15.4	3.5	3.5	4	3.3
Agway Game & Turkey Grower	21	22.6	3	3.2	4.5	2.4
Big Red Rabbit's Choice Rabbit Food	15	16.5	2	2.8	15	15.6
Agway Payback Complete Calf (RUM)	17	18.3	3	3.5	13.9	11.6
Agway Dairy 16	16	17.1	2.5	3.5	14.4	9.6
Agway Legends 10P (6% Fat) Pelleted Horse Feed	10	11.8	6	4.3-	8	7.6
Agway Legends 12P (6% fat) Pelleted Horse Feed	12	14.8	6	5-	8	7.7
Agway Commercial Rabbit Feed	16	16.3	2	3.4	16.5	17.3
Agway Broiler Maker Medicated	21	20.6	3.5	3.3	2.9	2.2
Agway Chick Grower Feed	14.5	16	3.5	3.9	4	3.2
Agway Chick Starter, Medicated	18	18	3	4.2	3.5	3
Agway Reliance 12P Pelleted Horse Feed	12	15.6	3	1.3-	15	13
Agway Game & Turkey	21	21.6	3	3.4	4.5	2.3
Agway Legends 10P Pelleted Horse Feed	10	12.4	6	5.9	8	8.4
BLUE SEAL FEEDS, INC.						
Blue Seal Deer Pellets	16	17.8	2.5	3.5	12.5	8.8
Blue Seal Horse Hay Stretcher LPEL	11.5	13	2	2.6	20	15.3
Blue Seal Vintage Gold Extruded Horse Feed	16	18	7.5	7.8	7	5.3
Blue Seal Calf BT Flakes	21	22.8	2.5	3	8.5	5.5
Blue Seal Shepherd 16	16	19	2	3.2	11	8.1
Blue Seal Hunter Horse Pellet	14	16.2	6	5.9	9	7.5
Blue Seal E-2 Pels	18	19.8	2.5	5.1	9	5.3
Blue Seal Premium Dairy Goat Pellet	20	20.4	3	4.5	8	4.9
Blue Seal Broiler Crumbles	22	22.7	6.5	6.1	4	3.3
CARGILL, ANIMAL NUTRITION DIV.						
Cargill Dairy Pellets	24	23.5	5.82	6.5	3.59	3.4
Cargill Dry Cow Pellet	19.08	19.9	2.72	3.6	11.61	9.8
Cargill Grist-Lactating Cattle	25.5	26.6	6.20	6.7	7.42	6.4
Cargill Grist	25	24.5	6.86	7.1	10.79	9.7
Cargill	27.46	25.7-	5.98	5.9	6.71	5.2
Cargill Dairy Grist	23	23.6	4.19	4.3	4.80	3.8
CARGILL, NUTRENA DIV.						
Nutrena Nature Wise Rabbit Pellets 16	16	17	2.5	3.9	15	14.2
Nutrena Nature Wise Turkey & Gamebird Grower	22	24.4	3	4.3	6	3
Nutrena Nature Wise Turkey, Pheasant, Quail Starter (BMD)	28	27.4	3.5	4.3	6	3.2
Nutrena Nature Wise Chick Starter (AMP) (ABF) Medicated	20	19.9	3	3.6	4	3.6
Nutrena Porktrack Hog Grower (FR)	15	16.4	2.5	5.9	7	4.8
Nutrena Nature Wise Lamb Pellets 16	16	15.8	2	4.7	11	9.4
Nutrena Nature Wise Layer (FR)	16	15.7	3	4	6	2.5
Nutrena Nature Wise All-Purpose Pellet 16 (FR)	16	15.5	2	2	10	9.1

Table 1. Analyses of protein, fat, and fiber in animal feed products (continued).

	Protein %		Fat%		Fiber%	
	G	F	G	F	G	F
Nutrena Vitality Gold 14% Horse Feed (CF)	14	13.6	9	9.4	8	4.6
Cargill Pellets Milk Plus (ABF)	28	28.9	3	4.1	3	3.2
Nutrena Porktrack Pig Starter (BMD) (FR) Medicated	18	18	3.5	5.2	4	2.9
Nutrena Nature Wise Turkey & Gamebird Finisher (FR)	16	16.2	3	5.4	6	6.1
Nutren Life Design 12(FR) Horse Feed	12	15.3	3	3.8	15	10.1
Nutrena Life Design Complete (FR)	14	14	7	6.6	8	6.1
Nutrena Triumph 12 Horse Pellets	12	14.6	3.5	3.1	7	5
Nutrena Horse Kwik 12.5% Ration (FR)	12.5	15.2	2	2.5	21	14.8
Nutrena Horse Kwik Ration Pellet (w/Roughage)(FR)	14	13.9	2	2.3	21	12.6
Nutrena Nature Wise Llama Pellets	14	13.6	2.5	4.6	12.5	8.2
Nutrena Nature Wise Pullet Grower	15	15.1	3	3.2	5	2.2
Nutrena Sing & Soar Wild Bird Food	10	12.3	3.5	15.6	10	6.1
CENTRAL CONNECTICUT CO-OP						
Central 22% Hi-Soluble Pellets	22	22.3	3	4.6	8.5	5.9
Central 20% Ruminator	20	20.9	3	5	8.5	4.7
Central Heifer Pellets	16	16.4	3.5	4.9	16	13.6
Central 16% Treat	16	17.1	3	4	8.5	8
Central Hog Grower	16	17.2	3.5	4.7	3.5	2.9
Central 22% Ruminator	22	22.5	3	4.8	8.5	4.8
18% Central Ruminator Pellet	18	17.9	3	5	8.5	5.4
Country Acres Horse Pellets 12	12	12.5	3	3.9	15	15.2
DOANE PET CARE						
Tuffy's Classic Hi-Pro Dog Food	27	30	10	9.8	4.5	4.1
Tuffy's Classic Bite-Size Dog Food	21	21.1	8	8.9	4	2.6
HEINOLD FEEDS						
Heinold 15-20 Show Formula Rabbit Pellets	15	17.6	3	3.4	22.5	15.6-
Heinold 17-17 Family Ratio Rabbit Pellets	17.2	17.5	2.5	1.9-	19	14.4
Heinold 20% Lamb Creep with Deccox	20	19.8	4	3-	4	2.6
Heinold 17-19 Wool Formula Rabbit Pellets	17	17.1	3	3	21	20.3
Manna Pro Double Duty Rabbit	16	16.4	2.5	2.9	21	17.2
MIDWEST AGRI COMMODITIES COMPANY						
Beet Pulp Shreds	6	7.7	0.3	0.5	22	17.9
MOYER & SON INC.						
Purgrain Economy 11% AVC Pigeon Feed	11	10.4-	2.5	3.5	6	2.9
OHIO BLENDERS, INC.						
Alfa Green Supreme Dehydrated Alfalfa Pellets	17	17.7	1.5	1.6	27	27.5
ORGANIC UNLIMITED						
Vintage 14% Sheep Feed	14	15.3	2.5	3.6	7	3.4
Vintage 20% Pastured Poultry Ration	20	19.6	6.4	7	3.3	3.4
Vintage Post Peak Layer	14.5	14.3	3	4.8	3.5	2.9
Vintage Peak Layer	16.5	16.6	3	4.9	3.5	2.8

Table 1. Analyses of protein, fat, and fiber in animal feed products (continued).

	Protein %		Fat%		Fiber%		
	G	F	G	F	G	F	
PMI NUTRITION INTERNATIONAL							
Mazuri Mini-Pig Active Adult	16	16	3	4.7	11	10.6	
Mazuri Mini-Pig Elder	12	12.6	3	3.9	12	10.9	
PRO-PET, INC./NY							
RISE Floating Fish Diet	24	24.7	4	4.2	6	4.8	11
Lil' Red Original Flavor Cat Dinner	31	32.7	10	11.2	3	1.9	10
PURINA MILLS, INC.							
Purina Horseman's Edge Pellet 14	14	14	3	4.5	12	10	
Purina New England Pride Horse Pellet 14	14	15.6	2	3.3	20	14.6	
Purina Layena	16	17.1	2.5	3.2	7	6.7	
Purina Rabbit Chow	16	16.5	1.5	3	20	17.1	
Purina Pure Pride #200	14	14.1	2.5	3.9	8	5.9	
Purina Horse Chow 100	10	13.3	2	36	30	22.3	
Purina Meat Builder	20	19.4	3	5.3	5	2.5	
Purina Game Bird Maintenance Chow	12.5	12.2	2.5	36	10	3.5	
Purina Grain Land Wheat Bran	11	16.4	2	2.5	12	7.2	
Purina Turkey Grower, Medicated	20	19.7	3	4.2	5.5	2.3	
Purina Lamb Developer W/O	12	11.9	1.5	2.8	18	16.2	
Purina Duck Grower W/O	16	15.4	3	3.6	5	2.8	
Purina Start & Grow MP 0.0125	17	17.7	3	5.5	5	3.8	
SOUTHERN STATES, INC.							
Southern States Custom Wild Bird Food	8	9.4	3	5	6	2.2	
SUNFLOWER, INC.							
Feathered Friend Flyer's Choice Wild Bird Food	14	17.7	20	32	12	8.5	
TATE & LYLE UNITED MOLASSES							
Tate & Lyle United Molasses Beet Pulp	7	8.8	22.5	15.1	12	10	
WAUREGAN GRAIN CO.							
Wauregan Turkey-Game Bird Grower	22	23.5	3.5	3.2	4.5	3.8	
Wauregan Heifer-Grower Pellets, Medicated	16	23.4	3	5.1	8	7	
Wauregan Layer	15	15.9	3	2.9	4	2.9	
Wauregan Mustang 14% Horse Pellets	14	15.9	3	4	12	8.9	
Wauregan Rabbit Pellets	20	21	2.5	2.7	18	13.9	
Wauregan Sheep & Goat	18	22.1	3	5.1	7	6.5	
Wauregan 16% Port Maker Plus	16	19.5	3	4	4.5	4.9	
Wauregan Texturized 14%	14	17.2	3	4.3	8	6.5	
Wauregan Milkers Choice 1680	16	18.3	3	5.5	8	7.5	

Table 2. Analyses of moisture and ash in animal feed products.

	Moisture %		Ash %	
	G	F	G	F
DOANE PET CARE				
Tuffy's Classic Hi-Pro Dog Food	12	6.4		
Tuffy's Classic Bite-Size Dog Food	12	7.9		
PRO-PET, INC./NY				
Rise Floating Fish Diet	11	6.7		
Lil' Red Original Flavor Cat Dinner	10	7.8	7.5	7.5
SUNFLOWER, INC.				
Feathered Friend Flyer's Choice Wild Bird Food	12	5.9		
TATE & LYLE UNITED MOLASSES				
	12	10		

Table 3. Analyses of micronutrients in animal feeds.

Manufacturer/Name	Micronutrients
AGWAY, INC.	
Agway Hog Feed	Calcium 1; Phosphorus 0.6; Zinc 80ppm; Selenium 0.3ppm; Sodium 0.22
Agway Sow & Pig T40 Medicated Feed	Calcium 1; Phosphorus 0.9; Zinc 97ppm; Selenium 0.4ppm; Sodium 0.2
Agway Hi-Energy Lamb Medicated Feed	Calcium 1.4; Phosphorus 0.8; Selenium 0.3ppm; Sodium 0.22
Agway Sheep & Goat Feed	Calcium 1; Phosphorus 0.9; Selenium 1.1ppm
Agway Llama Pellets	Calcium 1.1; Phosphorus 1; Sodium 0.78
Agway Egg Layer	Calcium 3.3; Phosphorus 0.8; Sodium 0.21
Agway Chick Grower	Calcium 1; Phosphorus 0.8; Sodium 0.19
Agway Game & Turkey Grower	Calcium 1; Phosphorus 0.9; Sodium 0.17
Big Red Rabbit's Choice Rabbit Food	Calcium 1.5; Phosphorus 1
Agway Payback Complete Calf (RUM)	Calcium 0.95; Phosphorus 0.9; Selenium 0.7ppm
Agway Dairy 16	Calcium 1.6; Phosphorus 1; Selenium 0.5ppm
Agway Legends 10P (6% Fat) Pell. Horse Fd.	Calcium 1.2; Phosphorus 0.7; Copper 46ppm; Zinc 206ppm; Selenium 0.8ppm
Agway Legends 12P (6% fat) Pell. Horse Fd.	Calcium 1.1; Phosphorus 0.8; Copper 50ppm; Zinc 220ppm; Selenium 0.6ppm
Agway Commercial Rabbit Feed	Calcium 1.2; Phosphorus 0.8
Agway Broiler Maker Medicated	Calcium 1.2; Phosphorus 0.7; Sodium 0.18
Agway Chick Grower Feed	Calcium 1.1; Phosphorus 0.8; Sodium 0.17
Agway Chick Starter, Medicated	Calcium 1; Phosphorus 0.9; Sodium 0.2
Agway Reliance 12P Pelleted Horse Feed	Calcium 0.9; Phosphorus 0.8; Copper 42ppm; Zinc 171ppm; Selenium 0.6ppm
Agway Game & Turkey	Calcium 1.3; Phosphorus 1.1; Sodium 0.18
Agway Legends 10P Pelleted Horse Feed	Calcium 1.1; Phosphorus 0.6; Copper 99ppm; Zinc 310ppm; Selenium 0.7ppm
BLUE SEAL FEEDS, INC.	
Blue Seal Deer Pellets	Calcium 1.3; Phosphorus 0.9
Blue Seal Horse Hay Stretcher LPEL	Calcium 0.8; Phosphorus 0.7

Table 3. Analyses of micronutrients in animal feeds (continued).

Manufacturer/Name	Micronutrients
Blue Seal Vintage Gold Extruded Horse Feed	Calcium 1.2; Phosphorus 0.9; Copper 53ppm; Zinc 201ppm; Selenium 0.6ppm
Blue Seal Calf BT Flakes	Calcium 1.1; Phosphorus 0.8; Selenium 0.64ppm-
Blue Seal Shepherd 16	Calcium 1.8+; Phosphorus 0.9; Selenium 0.4ppm
Blue Seal Hunter Horse Pellet	Calcium 1.1; Phosphorus 0.8; Copper 48ppm; Zinc 177ppm; Selenium 0.8ppm
Blue Seal E-2 Pels	Calcium 1.3; Phosphorus 0.8; Copper 372ppm; Zinc 1545ppm; Selenium 0.83ppm
Blue Seal Premium Dairy Goat Pellet	Calcium 0.9; Phosphorus 0.6; Copper 19ppm; Selenium 0.3ppm
Blue Seal Broiler Crumbles	Calcium 1.1; Phosphorus 0.8
CARGILL, ANIMAL NUTRITION DIV.	
Cargill Dairy Pellets	Calcium 1.7; Phosphorus 0.6; Selenium 0.36ppm-; Sodium 1.2
Cargill Dry Cow Pellet	Calcium 1.9; Phosphorus 0.6; Selenium 0.2ppm-; Sodium 0.25
Cargill Grist-Lactating Cattle	Calcium 1.5; Phosphorus 0.7; Selenium 0.6ppm; Sodium 1
Cargill Grist	Calcium 1.8; Phosphorus 0.7; Selenium 0.38-; Sodium 1.1
Cargill DNS #100706-GG	Calcium 1.6; Phosphorus 0.6; Selenium 0.33ppm; Sodium 0.9
Cargill Dairy Grist	Calcium 2.2; Phosphorus 0.6; Selenium 0.2ppm-; Sodium 1.3
CARGILL, NUTRENA DIV.	
Nutrena Nature Wise Rabbit Pellets 16	Calcium 1.1; Phosphorus 0.8
Nutrena Nature Wise Turkey & Gamebird Grower	Calcium 1.3; Phosphorus 0.9; Sodium 0.093-
Nutrena Nature Wise Turkey, Pheasant, Quail Starter (BMD)	Calcium 1.3; Phosphorus 1; Sodium 0.085-
Nutrena Nature Wise Chick Starter (AMP)(ABF) Medicated	Calcium 1.2; Phosphorus 0.9; Sodium 0.18
Nutrena Porktrack Hog Grower (FR)	Calcium 1.2; Phosphorus 0.8; Zinc 132ppm; Selenium 0.3ppm; Sodium 0.2
Nutrena Nature Wise Lamb Pellets 16	Calcium 0.65-; Phosphorus 0.7; Selenium 0.3ppm; Sodium 0.2
Nutrena Nature Wise Layer (FR)	Calcium 3.3; Phosphorus 0.8; Sodium 0.14
Nutrena Nature Wise All-Purpose Pellet 16 (FR)	Calcium 1.2; Phosphorus 0.9; Potassium 1.2; Zinc 121ppm; Selenium 0.2ppm; Sodium 0.4
Nutrena Vitality Gold 14% Horse Feed (CF)	Calcium 1.4; Phosphorus 1.2; Copper 83ppm; Zinc 207ppm; Selenium 0.3ppm
Cargill Pellets Milk Plus (ABF)	Calcium 2; Phosphorus 1.1; Magnesium 0.3; Potassium 1.6; Copper 35ppm; Sodium 0.3; cobalt 1.7ppm
Nutrena Porktrack Pig Starter (BMD) (FR) Medicated	Calcium 0.96; Phosphorus 0.8; Zinc 127ppm; Selenium 0.23ppm; Sodium 0.2
Nutrena Nature Wise Turkey & Gamebird Finisher (FR)	Calcium 1.2; Phosphorus 1.1; Sodium 0.16;

Table 3. Analyses of micronutrients in animal feeds (continued).

Manufacturer/Name	Micronutrients
Nutren Life Design 12(FR) Horse Feed	Calcium 1.2; Phosphorus 1.1; Copper 48ppm; Zinc 233ppm; Selenium 0.8ppm
Nutrena Life Design Complete (FR)	Calcium 0.8; Phosphorus 0.9; Copper 23ppm-; Zinc 145ppm; Selenium 0.8ppm
Nutrena Triumph 12 Horse Pellets	Calcium 1; Phosphorus 0.8; Copper 21ppm-; Zinc 127ppm; Selenium 0.5ppm
Nutrena Horse Kwik 12.5% Ration (FR)	Calcium 1; Phosphorus 0.6; Copper 35ppm; Zinc 128ppm; Selenium 0.6ppm
Nutrena Horse Kwik Ration Pellet (w/Roughage)(FR)	Calcium 1; Phosphorus 0.7; Copper 25ppm-; Zinc 136ppm; Selenium 0.5ppm
Nutrena Nature Wise Llama Pellets	Calcium 1; Phosphorus 0.7; Sodium 0.2;
Nutrena Nature Wise Pullet Grower	Calcium 1; Phosphorus 0.7; Sodium 0.2
Nutrena Sing & Soar Wild Bird Food	
CENTRAL CONNECTICUT CO-OP	
Country Acres Horse Pellets 12	Calcium 1; Phosphorus 0.7; Copper 34ppm; Zinc 129ppm; Selenium 0.5ppm
HEINOLD FEEDS	
Heinold 15-20 Show Formula Rabbit Pellets	Calcium 1; Phosphorus 0.7
Heinold 17-17 Family Ratio Rabbit Pellets	Calcium 1; Phosphorus 0.6
Heinold 17-19 Wool Formula Rabbit Pellets	Calcium 1.1; Phosphorus 0.5
Manna Pro Double Duty Rabbit	Calcium 1; Phosphorus 0.7; Sodium 0.25
ORGANIC UNLIMITED	
Vintage 14% Sheep Feed	Calcium 0.9; Phosphorus 0.6
PMI NUTRITION INTERNATIONAL	
Mazuri Mini-Pig Active Adult	Calcium 1.2; Phosphorus 0.9; Zinc 257ppm; Selenium 0.4ppm; Sodium 0.14
Mazuri Mini-Pig Elder	Calcium 1.2; Phosphorus 0.9; Zinc 307ppm; Selenium 0.4ppm; Sodium 0.14
PURINA MILLS, INC.	
Purina Horseman's Edge Pellet 14	Calcium 0.9; Phosphorus 0.8; Copper 50ppm; Zinc 235ppm; Selenium 0.5ppm
Purina New England Pride Horse Pellet 14	Calcium 0.7; Phosphorus 1; Copper 20ppm; Zinc 133ppm; Selenium 0.3ppm
Purina Layena	Calcium 4.5; Phosphorus 0.7
Purina Rabbit Chow	Calcium 0.8; Phosphorus 0.6
Purina Pure Pride #200	Calcium 0.9; Phosphorus 0.8; Copper 51ppm; Zinc 247ppm; Selenium 0.4ppm-
Purina Horse Chow 100	Calcium 1; Phosphorus 0.5; Copper 24ppm; Zinc 91ppm; Selenium 0.3ppm
Purina Meat Builder	Calcium 1.2; Phosphorus 0.9
Purina Game Bird Maintenance Chow	Calcium 0.8; Phosphorus 0.7
Purina Turkey Grower, Medicated	Calcium 1.1; Phosphorus 0.9
Purina Lamb Developer W/O	Calcium 0.8; Phosphorus 0.5; Selenium 0.3ppm
Purina Duck Grower W/O	Calcium 0.8; Phosphorus 0.8
Purina Start & Grow MP 0.0125	Calcium 1; Phosphorus 0.9

Table 3. Analyses of micronutrients in animal feeds.

Manufacturer/Name	Micronutrients
WAUREGAN GRAIN CO.	
Wauregan Layer	Calcium 3.9; Phosphorus 0.5
Wauregan Mustang 14% Horse Pellets	Calcium 1.4+; Phosphorus 1; Copper 36ppm; Zinc 182ppm; Selenium 0.4ppm
Wauregan Texturized 14%	Calcium 0.9; Phosphorus 0.8; Magnesium 0.3; Potassium 1.2; Sulfur 0.3
Wauregan Milkers Choice 1680	Calcium 1.4; Phosphorus 1; Magnesium 0.4; Potassium 1.1; Sulfur 0.3

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